

PRECISION IN-SITU MACHINING

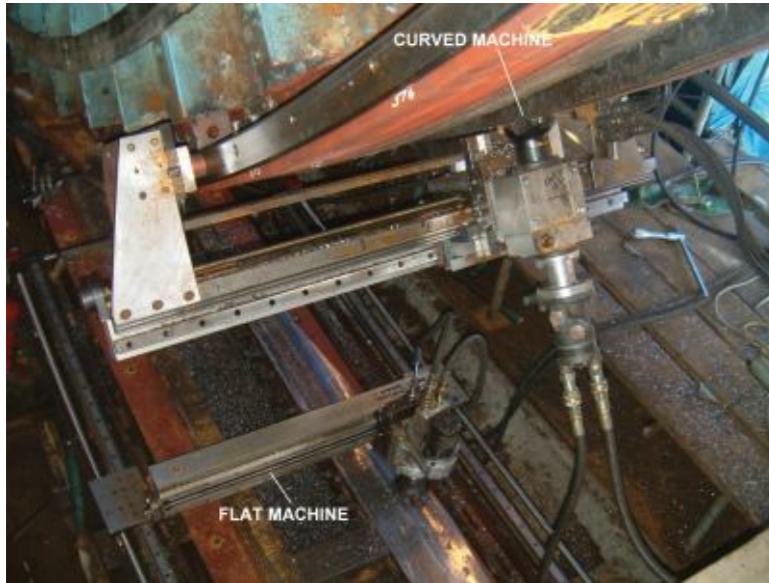
MILLING OF FLAT AND CURVED TRACKS ON A CANTILEVER BRIDGE USING OPTICAL ALIGNMENT AND IN-HOUSE DESIGNED MILLING EQUIPMENT

M & A Engineering Ltd was asked to undertake linear machining of the 8 metre tracks of a bridge. Each set-up covered an area of 2x3 metres and the track was accurately match blended at each move using an optical telescope.

In addition to the linear milling, a bespoke machine was designed and manufactured by M&A Engineering to undertake the milling of the radius tracks.

M&A's in-house designed, and propriety milling equipment can be applied to any site environment; for example: Petro-Chemical, Marine, Steel Production, Aggregate Production, Power generation and so on.





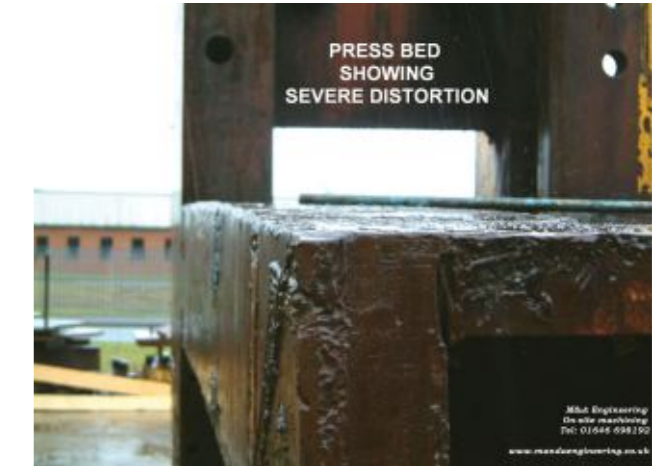
Here, both the linear and radius milling machines can be seen working together on one side of the bridge. Both machines are hydraulically powered and removed up to 17mm section of steel in a task lasting 2 weeks, 24 hours a day.

After completion of machining, a total of 32 metres of new pre-formed wear plates were fitted to both of the linear and radius tracks. Accurate machining ensures the bridge raises and lowers to a precise position.



Press Bed Milling

Note the severe distortion (top right photo) that has occurred to one side of a press bed. A portable milling machine is accurately aligned and set to other undamaged datums of the bed. Post machining has returned the bed perfectly flat and to manufacturer's original tolerance and specification.



On this new motor bed, the pads had to be machined flat and parallel to each other, on two levels. Again, optical alignment ensures machining to precise tolerances.



On-site Machining
of incorrectly
manufactured
support leg.



M&A Engineering offers a comprehensive range of portable milling equipment, with the capability of milling large areas in one set-up; optically set for accuracy.



M&A Engineering
machining without boundaries

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